





PAGER Version 3

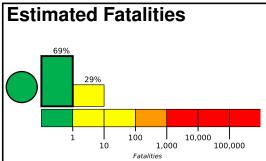
10.000

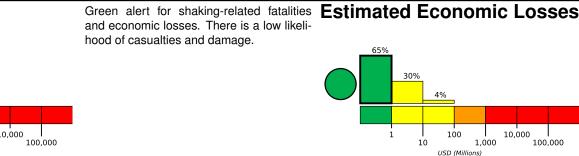
100,000

1,000

Created: 1 hour, 3 minutes after earthquake

M 4.2, 16km S of Twentynine Palms, CAOrigin Time: 2019-07-22 16:26:56 UTC (Mon 09:26:56 local) Location: 33.9958° N 116.0445° W Depth: 7.9 km





Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1,439k*	810k	22k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Morongo Valley

Population Exposure

N Big Bear City

population per 1 sq. km from Landscan 5000 10000



Twentynine Palms

alton City П

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1991-06-28	183	5.6	VI(1,267k)	1
1992-06-28	49	7.3	VIII(23k)	1
1971-02-09	220	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org					
MMI	City	Population			
IV	Twentynine Palms	25k			
Ш	Sky Valley	2k			
Ш	Indio	76k			
Ш	Bermuda Dunes	7k			
Ш	Coachella	41k			
Ш	Thousand Palms	8k			
II	Hemet	79k			
1	Murrieta	103k			
1	Temecula	100k			
1	Vista	94k			
1	Moreno Valley	193k			

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.